NOVELL®

NetWare Version 2.2

Getting Started

NetWare®

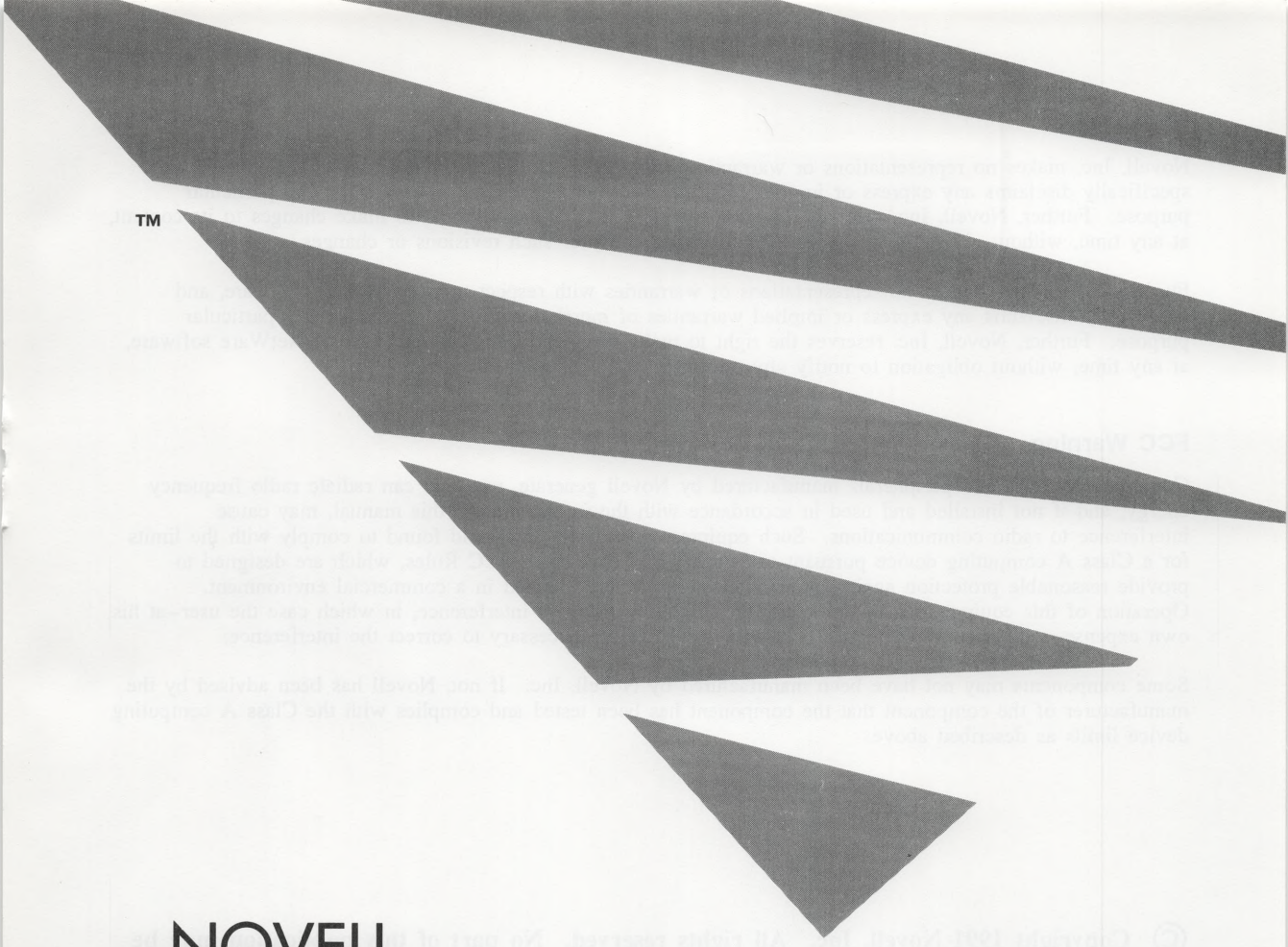

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Table of contents

List of figures ii
How to use this manual iii
Installation overview 1
Preparing the equipment 4
Preparing the software 7
Installing the operating system 7
Installing the workstation software 13
Creating users 17
Creating application directories 22
Introduction to other manuals 24
Installation Worksheet 25
Trademarks 27
Index 29

List of figures

Network physical connections 1
Network software connections 2
Network printer connection 2
How the printer routes a job 3

How to use this manual

This manual is for installers who want to quickly set up a small, simple network. Use this manual only if your network configuration matches the following:

- One file server only, with a high-capacity diskette drive
- One internal controller for hard disks in the file server
- No external hard disks attached to the file server
- One network board set to configuration option 0 in the file server
- DOS workstations only, each with at least one floppy diskette drive (no diskless workstations) and one network board
- One parallel printer attached to the file server
- No routers (another term for bridges)

For more information about any terms found in this manual refer to *Concepts*.

If your network configuration is different from the one listed above, go to *Installing and Maintaining the Network* for instructions on installing your network.

Icons

This manual uses some icons to alert you to important information and special procedures.

The planning icon designates a point at which you should record your installation decision on the appropriate worksheet.

The exclamation icon marks an explanation or instruction that is critical for a successful installation.

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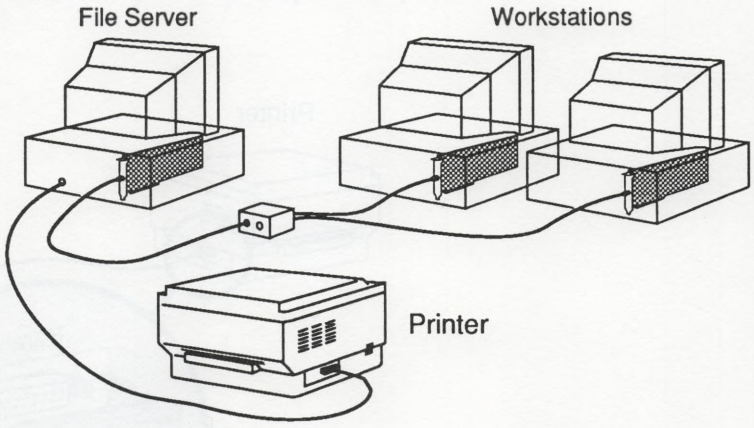
Installation overview

This manual explains how to install a basic NetWare v2.2 network.

A basic network consists of the following:

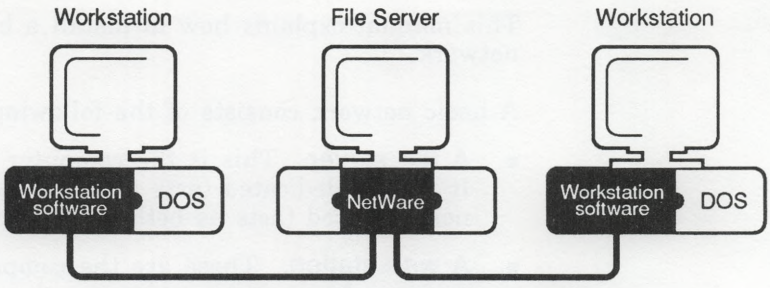
- **A file server.** This is the computer that runs the network. It can be dedicated (acts as a file server only) or nondedicated (acts as both a file server and a workstation).
- **A workstation.** These are the computers where users do their work.
- **A printer.** This is a parallel printer attached to the file server that all users can share.

The *physical* connection between workstations and the file server is composed of network boards, cabling, and cable connections (such as repeaters, amplifiers, and transceivers) that link the boards together.



Network physical connections

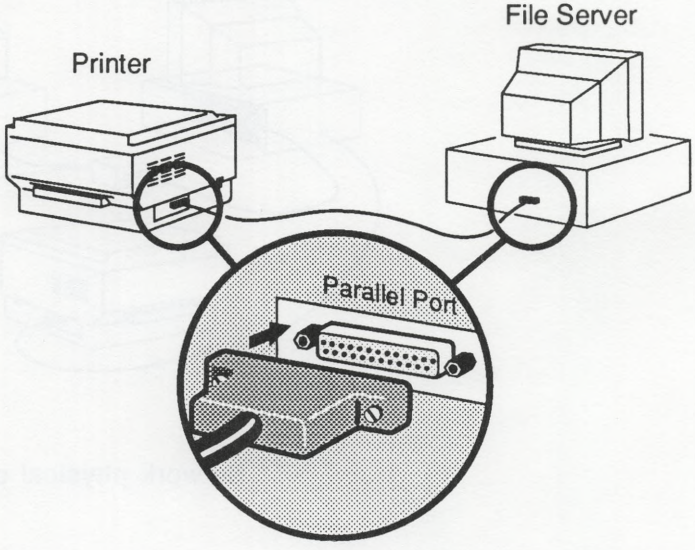
The *software* connection between workstations and the file server is the NetWare workstation software and the NetWare file server operating system.



Network software connections

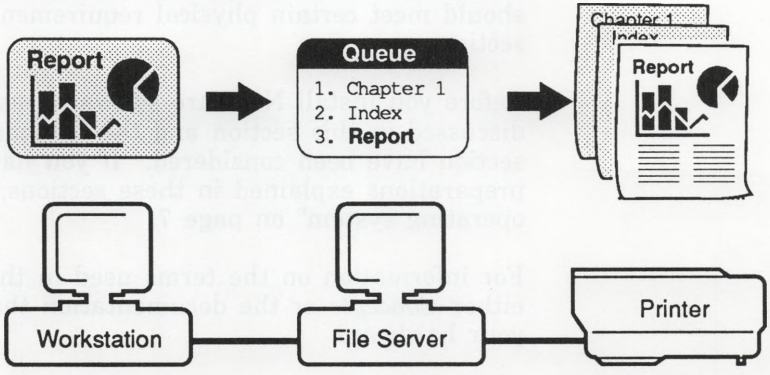
The NetWare workstation software acts as a translator between NetWare and DOS. It resides in the workstation and interprets each request from the keyboard or an application. Then it directs that request either to NetWare or to DOS, whichever is appropriate.

The parallel printer is cabled directly to the file server.



Network printer connection

When a user is ready to print a file, the application sends the print file to a "queue" (a file containing a list of print files on the file server). Then the file server sends the queued files to the printer. If the printer is busy, the file server holds the file in the queue until the printer is available.



How the printer routes a job

To install your network, complete the following tasks, which are discussed in detail in subsequent sections:

- First, physically connect the file server, workstations, printer, and other equipment (such as plotters, uninterruptible power supplies, and surge protectors).
- Then install the operating system on the file server.
- Next, generate the workstation software and copy the workstation files to boot diskettes.
- Then create your network users.
- Finally, install your application software.

Preparing the equipment

To protect the investment you have made in your file server, workstations, and attached peripherals, your installation site should meet certain physical requirements described in this section.

Before you install NetWare software, make sure the items discussed in this section and the "Preparing the software" section have been considered. If you have already made the preparations explained in these sections, go to "Installing the operating system" on page 7.

For information on the terms used in this manual, refer to either *Concepts* or the documentation that was shipped with your hardware.

1. Make sure your machines and network boards are compatible with NetWare v2.2. Check with your Authorized Novell Reseller for details.

   File server hardware. NetWare v2.2 supports most 80286, 80386, 80486, and microchannel hardware.

   Workstation hardware. NetWare v2.2 supports most 80286, 80386, 84086, 8086, 8088, and microchannel hardware.

Some file servers do not come with high-capacity drives. If you have such a file server, you must install a high-capacity drive before you perform the installation.

2. Make sure your equipment meets the following approximate minimum memory requirements.

   File server memory. If you are using hard disks larger than 70MB, you may need more memory (RAM) than is listed below.

Dedicated server	2.5MB to 4MB
Nondedicated server	2.5MB to 5MB

   If your file server needs more memory, install add-on memory boards that can be purchased from your computer dealer. Instructions for inserting add-on boards should be included in the documentation supplied by the computer manufacturer.

Workstation memory. Workstations require approximately 512KB of memory to run NetWare software and most applications (640KB is preferred).

3. Check with your hardware dealer for specific power requirements for your network. We recommend that you
   - Use dedicated power lines and grounded outlets.
   - Install power conditioning equipment (such as uninterruptible power supplies and surge suppressors).
   - Protect network equipment from static electricity.

4. Before you install the network boards in the computers, follow the SETUP instructions outlined in the operations manual for each computer you are using. The SETUP program sets the internal clock and specifies memory size, internal disk drive types, and other parameters.

   If you are setting up an IBM Personal System/2 Model 30-286, 50, 50Z, 60, 70, or 80 as a file server, observe the following as you run the IBM REFERENCE program:
   - Do not choose "Set Features." Although this option enables you to set a power-on password and a keyboard password, we recommend that you do not use these passwords. If you set these passwords and the network experiences a power failure, the file server does not reboot automatically.
   - Do not choose "Set network server mode." This mode does not allow keyboard input after DOS executes an AUTOEXEC.BAT file and, as a result, your file server console does not operate properly.

5. Boot each computer with DOS. (See your DOS manual for details.)

DOS 3.0 or above is required in order to use the NetWare v2.2 high-capacity installation diskettes.

6. Ensure that each network board is set to option 0 (the factory default) and install the network boards in the file server and in each workstation.

   See the documentation that comes with your network board for instructions on the board settings.

7. Cable the network boards in the file server and workstations together. Again, refer to the documentation for the network board to connect the cabling properly.

8. Make sure all connectors and terminators are secure.

   A partial connection does not let the workstations communicate with the file server. A bad connection can also cause a workstation to hang or give the appearance that the workstation is hanging.

9. Ensure that each machine boots DOS with the network board installed.

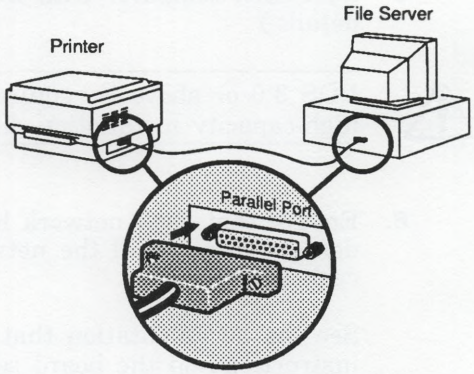
   This means that you may have to run the SETUP or REFERENCE program again for some machines. If the SETUP program does not recognize your network board, there may be problems with the board.

If the machine does not boot DOS after the network board is installed, a hardware conflict probably exists between the network board and the other hardware. You cannot continue with the basic installation if this happens. You must use another non-conflicting configuration option on the network board and follow the installation procedure in *Installing and Maintaining the Network*.

---

10. Prepare the network printer for installation.

    Most file servers approved for a NetWare network come with one parallel port built into the system board. If you do not have a parallel port, install one before continuing.



Continue with "Preparing the software" on the next page.

Preparing the software

The NetWare v2.2 diskettes are high-capacity diskettes. The 5.25-inch diskettes have a capacity of 1.2MB. The 3.5-inch diskettes have a capacity of 1.4MB.

Make working copies of the NetWare diskettes

As you run the installation program, files on the diskettes are created or modified. Before you begin, get blank high-capacity diskettes to make working copies of all the NetWare diskettes. Use the working copies to run the program.

On a machine with a high-capacity diskette drive, use the DISKCOPY command (that comes with DOS 3.0 or above) to ensure that the working-copy diskettes are formatted correctly, have the correct volume name, and have all the directories and files of the original NetWare diskettes.

Installing the operating system

At this point, you should have completed your hardware installation.

1. Go to the Installation Worksheet on page 25.

Record your installation information on the top portion of the Installation Worksheet. This worksheet is helpful during the software installation and later as a troubleshooting reference.

Installation Worksheet

File Server

Operating System mode: ❑ dedicated ❑ nondedicated

File server name: _____ Installed by: _____

Network board name: _____ Configuration option: 0

2. Record whether you need the file server to be dedicated (acts as a file server only to increase network speed) or nondedicated (acts as a file server and a workstation to save expenses).

3. Record a unique name for your file server (such as Accounting, Engineering, Front_office, or Tech_services).

   Make sure your file server name meets the following requirements:

Number of characters	2 - 16 characters
Invalid characters	? * \ / and spaces (first character cannot be a period)

4. Record the name of the network board in your file server (such as NE2000, Token-Ring, or NE/2).

Running INSTALL

Use the information you recorded on the Installation Worksheet (page 25) as you complete the instructions for the INSTALL program.

1. Insert the DOS diskette in drive A and boot the machine you want to use as a file server. Wait for the A prompt before continuing.

2. If you want to save any files that are currently on the hard disk of the file server, back them up now.

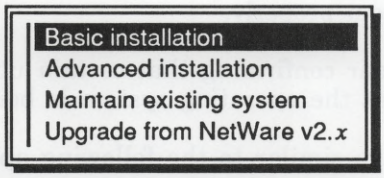
The basic installation tests portions of your hard disk for flaws and destroys all data on the hard disk of the file server. (This includes data on partitions such as DOS, OS/2, and Unix.) If you want to save any data, copy the data to diskettes so that you can copy it back to the file server after the file server installation is complete.

3. Remove the DOS diskette and insert the *SYSTEM-1* diskette into drive A.

4. At the A prompt, type

   INSTALL <Enter>

The following menu appears:



5. "Basic Installation" is already highlighted. Press <Enter>.

Note: As you install the software on the file server, press <F1> at any time for specific on-line help instructions.

---

6. Read the information on the screen and press <Enter> to continue the installation.

7. Choose the way you want the file server to operate. It can be either dedicated (a file server only) or nondedicated (both a file server and a workstation). Highlight the one you want and press <Enter>.

Note: If the computer beeps when you try to highlight a menu choice, make sure the NUMLOCK key is deactivated.

Press <F1> if you want more information about dedicated and nondedicated file servers.

8. Type the name of the file server and press <Enter>.

9. Scan the list of network board names (drivers) for the one that matches the network board installed in your file server.

If the driver is	Then
Listed	1. Highlight the driver and press <Enter>.
Not listed	1. Press <Insert>. 2. Insert a diskette from a third-party manufacturer labeled *LAN_DRV_???* (the ??? represents a 3-digit number). 3. Highlight the driver and press <Enter>.

10. Follow the screen prompts to insert the NetWare diskettes as they are requested. This process takes 20 to 30 minutes.

This process requires swapping the *SYSTEM-1* and *SYSTEM-2* diskettes (and others) several times in order to install the operating system properly.

Messages appear confirming that certain utilities are being linked and that the operating system is being created.

Then a message similar to the following appears:

Ztest

The following test will destroy any data on the hard disks you select and test. Each hard disk selected from the next menu will be tested and prepared for NetWare.

NetWare-Ready drives have been tested and are ready for use. Other hard disks must be track-zero-tested before use with NetWare. To cancel testing press <Escape>. To select and test hard disks press <Enter>.

11. Leave the *SYSTEM-2* diskette in drive A and press <Enter> to begin the test process.

12. Highlight the first hard disk to be tested and press <Enter>. If there is only one hard disk listed, press <Enter>.

13. Highlight "Yes" and press <Enter> at the "Test and Destroy ALL data on this disk?" prompt to begin the test.

    After the hard disk test is completed, look for the "Passed" or "Failed" designation on the far right side. If the test fails on any hard disk, contact your hardware service representative.

14. Repeat Steps 12 and 13 if you have a second hard disk.

15. Press <F10> to continue.

16. Follow the screen prompts to insert the NetWare diskettes as they are requested. The process of installing the operating system files takes several more minutes to complete.

    A message appears to tell you when the installation is complete.

Ignore any references to COMMAND.COM on the screen.

17. Depending on whether your file server is dedicated or nondedicated, complete the following instructions to bring it up as a network file server:

If it is	Then
Dedicated	1. Remove any diskettes. 2. Turn the machine off, wait a moment, and turn it on again. The console prompt (:) appears, showing that the file server is up and running.
Nondedicated	1. Place the DOS diskette in drive A, and press <Ctrl><Alt><Delete>. 2. With the DOS diskette in drive A, type **FORMAT A: /S** <Enter> 3. Follow the prompts to insert and format a blank diskette in drive A. This diskette becomes your boot diskette. 4. Copy the following files to the boot diskette: **NET$OS.EXE** from *OSEXE* **NET3.COM** or **NET4.COM** (depending on your DOS version) from *WSGEN* 5. Create an AUTOEXEC.BAT file. The following example uses the COPY CON command: **COPY CON AUTOEXEC.BAT** <Enter> **NET$OS** <Enter> **NET3** <Enter> **F:** <Enter> **LOGIN** <Enter> <Ctrl><Z><Enter> 6. With the boot diskette in drive A, turn the machine off, wait a moment, and turn it on again. 7. Enter the following at the "Enter your login name:" prompt: **SUPERVISOR** <Enter> The network prompt (F>) appears, showing that the file server is up and running.

To learn more about boot-up information, see **Boot files** in *Concepts* or "File server/router management" in *Using the Network*.

Other information

If your file server is nondedicated, you can switch to the file server console by typing

```
CONSOLE <Enter>
```

To switch back to the DOS prompt, type

```
DOS <Enter>
```

Installing the workstation software

At this point, you should have completed your workstation hardware installation. See page 4 for details.

The following instructions are for installing DOS workstation software as part of the basic installation. (See "Introduction to other manuals" on page 23 for references to information about installing other workstations, such as OS/2 and Macintosh.)

Note: Nondedicated file servers already have the workstation software installed. This section is for dedicated workstations only.

Assumptions

This description of workstation installation assumes that

- Each workstation on your network has at least one floppy diskette drive.
- You have at least one workstation with a high-capacity diskette drive to generate workstation software.

1. Go to the Installation Worksheet on page 25.

Record your installation information on the workstation portion of the Installation Worksheet. You need this information later when you maintain or customize your network.

Workstation #1

Workstation owner/location: _____ Installed by: _____

Workstation make/model: _____

Network board name: _____ Configuration option: 0

2. Record the following for each workstation on your network:
   - The workstation owner or location
   - The workstation make and model
   - The name of the network board you installed in the workstation
   - Your name as the workstation installer

3. Format boot diskettes for each workstation.

If the following are	Then
The same for each workstation: make model DOS version network board type diskette drive capacity	Format all blank boot diskettes at one workstation.
Different for any workstation: make model DOS version network board type diskette drive capacity	Format a blank boot diskette at each workstation.

4. At the workstation, insert the DOS diskette containing COMMAND.COM and FORMAT.COM into drive A and turn on the machine. (Press <Enter> to skip the date and time prompts.)

5. With the DOS diskette still in drive A, type

   FORMAT A: /s <Enter>

6. Follow the prompts on the screen to complete the format.

7. Remove the boot diskette, label it ("John Smith's boot diskette," for example), and set the diskette aside.

8. Repeat Steps 4 through 7 to format a blank boot diskette for each workstation.

9. Move to a computer with at least one high-capacity floppy diskette drive. (You can use the file server if it is the only machine with a high-capacity diskette drive.) Refer to the chart on the next page for instructions that apply to your situation.

If you are using	Then
A DOS workstation	1. Skip to Step 10.
A dedicated file server	1. Ensure no one is on the network. 2. Down the file server by typing the following at the file server console prompt: **DOWN** <Enter> 3. Turn off the file server. 4. Insert the DOS diskette. 5. Turn on the file server and continue with Step 10.
A nondedicated file server	1. Make sure you are at the A prompt. Type the following, if necessary: **A:** <Enter> 2. Continue with Step 10.

10. Remove the DOS diskette from drive A and insert the *WSGEN* diskette.

11. At the A prompt, type

    WSGEN <Enter>

12. Read the introduction screen and press <Enter> to continue.

13. Scan the list of network board names (drivers) for the one that matches the network board in the workstation you are creating the boot diskette for.

If the driver is	Then
Listed	1. Highlight the driver and press <Enter>.
Not listed	1. Press <Insert>. 2. Insert a diskette from a third-party manufacturer labeled *LAN_DRV_???* (the ??? represents a 3-digit number). 3. Highlight the driver and press <Enter>.

14. With configuration option 0 highlighted, press <Enter>.

15. Review the software configuration, highlight "Yes, generate workstation software," and press <Enter>.

    NetWare incorporates the information about your network board into the IPX.COM file.

16. Press <Enter> again to exit WSGEN.

17. With the *WSGEN* diskette still in drive A, copy the IPX.COM file to the boot diskette you created in Step 1 by typing

    COPY IPX.COM B: <Enter>

Note: If you do not have a drive B, DOS prompts you to "Insert the diskette for drive B: and strike any key when ready." Remove the *WSGEN* diskette, insert the boot diskette, and press any key. DOS returns, "1 File(s) copied. Insert diskette for drive A: and strike any key to continue." Re-insert the *WSGEN* diskette and repeat the process to copy NET*x*.COM.

---

18. Remove the boot diskette and again insert the *WSGEN* diskette. Copy the NET*x*.COM file that matches your DOS version to the boot diskette.

If your DOS version is	Then type
3.*x*	COPY NET3.COM B: <Enter>
4.*x*	COPY NET4.COM B: <Enter>

19. With your boot diskette still in drive A, create an AUTOEXEC.BAT file to connect the workstation to the network automatically each time the workstation is turned on.

20. At the A prompt, type all of the commands exactly as they are shown below. The computer waits for you to press <Ctrl><Z> and <Enter> before it creates the file.

Note: If your DOS version is 4.0 or above, substitute NET4 for NET3.

```
COPY CON AUTOEXEC.BAT <Enter>
IPX <Enter>
NET3 <Enter>
F: <Enter>
LOGIN <Ctrl><Z>
<Enter>
```

21. To make sure that the commands were entered properly, type

    TYPE AUTOEXEC.BAT <Enter>

    A list similar to the following appears on the screen:

```
IPX
NET3
F:
LOGIN
```

22. To ensure that the boot diskette contains all the files mentioned, type

    DIR <Enter>

    A list similar to the following appears on the screen:

```
COMMAND  COM     25307   3-17-87  12:00p
IPX      COM     28776   7-11-91   3:05p
NET3     COM     48482   4-09-91   2:52p
AUTOEXEC BAT        42   7-11-91   4:42p
```

23. Repeat Steps 1 through 22 to create a boot diskette for each of the workstations you are installing.

24. Now test each boot diskette in its assigned workstation. Make sure the file server is turned on and the console prompt (:) is showing. See page 11 for details on booting the file server.

25. Make sure the boot diskette is in drive A of the workstation it was made for, and then turn on the workstation.

26. At the login name prompt, type

    SUPERVISOR <Enter>

27. A screen similar to the following appears:

```
Good morning, SUPERVISOR

Drive A     maps to a local disk.
Drive B     maps to a local disk.
Drive C     maps to a local disk.
Drive D     maps to a local disk.
Drive E     maps to a local disk.
Drive F:=   file server/SYS:SYSTEM
Drive G:=   file server/SYS:LOGIN
Drive Y:=   file server/SYS:PUBLIC
SEARCH1:=Z:. [file server/SYS:PUBLIC]

F:\SYSTEM>
```

If you do not get the screen, see COMCHECK in *Using the Network* and "Troubleshooting" in *Installing and Maintaining the Network*.

Note: To list the volumes that have been created on your network, type

VOLINFO <Enter>

If you have a hard disk larger than 255MB or if you have two internal hard disks, your network has two volumes, SYS and VOL1.

To exit from VOLINFO, press <Alt><F10> and answer "Yes" at the prompt.

Continue with "Creating users" on the next page.

Creating users

NetWare setup software (NWSETUP) allows you to specify the users for your network and the locations of their personal work directories on the file server. (Personal work directories are good places to store personal files, preliminary work, and application temporary files.)

After you run NWSETUP, each person can log in to the network using the assigned username and password and can work in a private work directory labeled with the username.

1. Before you run NWSETUP, make a list of all the names of the network users.

Record your user information on the back of the Installation Worksheet. Keep it for future troubleshooting.

2. Make sure you are logged in to the network as SUPERVISOR. (See the login instructions on page 17.)

3. At the network prompt (F>), type

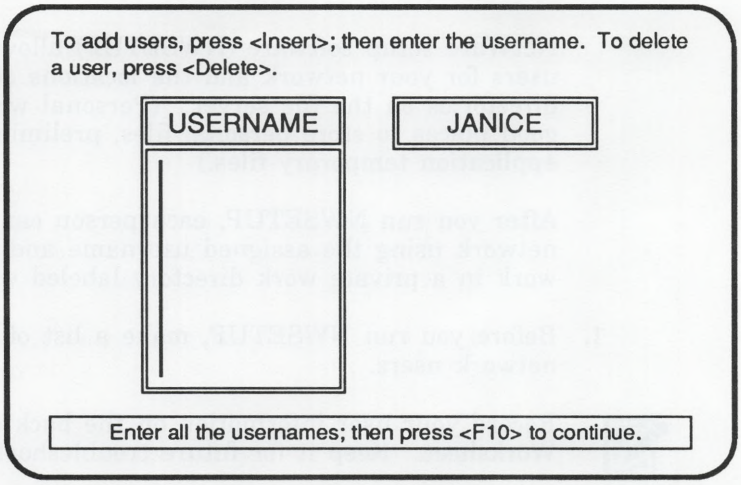
   NWSETUP <Enter>

4. Read the information on the introduction screen and press <Enter>.

Note: If you have not completed the INSTALL program properly, a message appears asking if you want network printing enabled. Answer the question and proceed to the next step.

---

5. On the screen similar to the following, press <Insert>, type the name of the first user, and press <Enter>:



6. Repeat Step 5 for each user.

7. When you have entered your last user, press <F10>. A screen similar to the following shows the usernames you entered along with a path to the personal work directory and passwords:

SUMMARY EDIT

Default Home Path SYS:\USERS

User name : JANICE	Password : JANICE
Full name :	Home Directory : SYS:\USERS\JA...
User name : BILL	Password : BILL
Full name :	Home Directory : SYS:\USERS\BILL
User name : CINDY	Password : CINDY
Full name :	Home Directory : SYS:\USERS\CINDY
User name : DAVE	Password : DAVE
Full name :	Home Directory : SYS:\USERS\DAVE

8. Read the selections carefully.

   The software plans a personal work directory for each user with the following path:

   SYS:USERS*username*

   For more information on directory paths, see **Directory path** and **Directory Structure** in *Concepts*.

9. If you want the path for the personal work directory to be something else for all users, enter the new path on the top line of the screen. If the directory does not exist, confirm that you want to create it.

   The software also plans a login script for each user. (The login script is a file that sets the network drive to the user's personal work directory.)

10. If you want to enter the full names for the users or to correct any names or passwords, use the arrow keys to move to the appropriate line and enter those changes now.

    If you have entered more names than appear on the screen, use the arrow keys to scroll down the screen.

11. Press <F10> to create the users.

    A screen appears indicating that a report has been sent to your printer if you have one connected.

12. Press <F10> to exit the program.

    This completes the network setup program.

    If you need to add any users at a later date, use NWSETUP again.

NWSETUP does not support NetWare Name Service. Do not use NWSETUP if you should ever add NetWare Name Service to your network. See SYSCON in *Using the Network*.

Continue with "Creating application directories" on the next page.

Creating application directories

You are now ready to load your applications on the NetWare file server. Typically, the application installation program creates a directory for each application, and you create one of the following types of directories to store the data files in:

- A subdirectory of the application
- Each user's home directory

Third-party applications typically have specific instructions on installing their software on a Novell network. Follow those instructions carefully. If your third-party documentation does not contain specific Novell installation instructions, use the following general guidelines for network applications.

Note: We do not recommend installing non-network applications on the network.

1. Install application files. Applications (such as word processing programs, spreadsheet programs, and database programs) usually have an installation program that creates the directory for the program files and copies the program files onto the network for you.

   See the documentation that came with each application for detailed network installation directions.

2. In the application directory, grant Read and File Scan rights to the group EVERYONE to allow users access to the executable files. See GRANT in *Using the Network*.

3. Flag the executable files Read Only/Shareable. See FLAG in *Using the Network*.

4. Add a search drive mapping to either the system login script or each user's login script for each application. See "Logging in and out" in *Using the Network*.

5. Refer to the third-party application documentation to see if you need to modify any configuration files for the workstation boot diskettes.

   In some cases, the application modifies or creates a CONFIG.SYS or an AUTOEXEC.BAT file. If so, compare the files, making sure that both the NetWare commands and the application commands are both there, and put those updated files on each user's boot diskette.

6. Copy data files into the directories you created for them. As you insert each diskette into drive A, type

   NCOPY A:*.* *path* <Enter>

   Replace *path* with the directory path to the appropriate application directory (such as SYS:HOME\JOHN).

Introduction to other manuals

You can further customize your NetWare v2.2 network. The following tasks indicate which manuals in the basic manual set you need to use.

If you need to	See
Perform most network tasks	*Quick Access Guide*
Learn more about NetWare terms	*Concepts*
Install a custom network	*Installing and Maintaining the Network*
Upgrade from a previous version	
Get help with a network problem	
Restrict users from some directories	*Using the Network*
Install DOS on the network	
Customize printing	
Install Macintosh workstations	*NetWare for Macintosh Installation and Maintenance*
Install OS/2 workstations	*NetWare Requester for OS/2*

You can also view an on-line copy of the documentation at any time by typing HELP at the network prompt.

Installation Worksheet

File Server

Operating System mode: ❑ dedicated ❑ nondedicated

File server name: _____ Installed by: _____

Network board name: _____ Configuration option: 0

Workstation #1

Workstation owner/location: _____ Installed by: _____

Workstation make/model: _____

Network board name: _____ Configuration option: 0

Workstation #2

Workstation owner/location: _____ Installed by: _____

Workstation make/model: _____

Network board name: _____ Configuration option: 0

Workstation #3

Workstation owner/location: _____ Installed by: _____

Workstation make/model: _____

Network board name: _____ Configuration option: 0

Workstation #4

Workstation owner/location: _____ Installed by: _____

Workstation make/model: _____

Network board name: _____ Configuration option: 0

Workstation #5

Workstation owner/location: _____ Installed by: _____

Workstation make/model: _____

Network board name: _____ Configuration option: 0

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Index

A

Adapter settings. *See* Network board configuration options
Application directories
  loading application files into 22
  loading data files into 23
Applications 22
AUTOEXEC.BAT file 16

B

Boot diskettes 10, 13, 22

C

Cable
  connection 1, 6
  termination 6
Configuration options 5, 15
CONFIG.SYS, modifying 22
Connections
  physical 1
  software 2
CONSOLE (NetWare command) 11

D

Directory
  application 22
  data file 23
  default home 21
Disk formatting 10
Diskettes
  boot 10, 13
  drive capacity 7
  working copies 7
DOS (NetWare command) 11
DOWN (NetWare command) 15

E

Equipment preparation 4

F

File server
  booting 10
  dedicated 1, 7, 9
  defined 1
  hardware requirements iii, 4
  installation worksheet 25
  logging in to 17
  name 9
  nondedicated 1, 7, 9, 11
  volumes 11
Files
  AUTOEXEC.BAT 16
  boot 10, 14
  data 23
  NET$OS.EXE 10
  NETx.COM 10
  workstation 2, 13
FORMAT (DOS command) 14

H

Hard disk
  basic installation 5, 8, 10
  requirements iii
  test 8, 10
Hardware requirements
  file server iii, 4
  workstation iii, 4, 5, 13
Home directory
  change or create 21
  default 20

I

INSTALL, running 8
Installation
  applications 22
  booting the file server 10
  cautions 8
  dedicated 9
  hard disk iii, 4, 10
  help 8
  LAN drivers 9

Installation (*continued*)
logging in, to verify 17
nondedicated 9
overview 1
preparation 7
setup instructions 5
termination 6

L

LAN driver
file server 9
workstation 14
Logging in. *See* Installation
Login script 21

M

Memory requirements 4, 5

N

Names, entering users' 21
NET$OS.EXE file 10
NETx.COM file 10
Network
connections 1, 2
equipment 1
logging in to 17
Network board configuration
options 5, 15
NWSETUP, creating users with 19

O

Operating system overview 2
Options, network board configuration 5, 15

P

Passwords 21
Power requirements 5
Printer
connections 2
network 1
overview 2
requirements 1

R

RAM. *See* Memory requirements
REFERENCE (IBM program) 5

S

Server. *See* File server
Setup instructions, for installation 5
Site preparation 4
Software, working copies 7
Static prevention 5

T

Termination, cable 6

U

Users, creating 19

V

Volume size 11

W

Workstation
boot diskettes 14
configuration option 15
defined 1
hardware requirements iii, 4, 5, 13
installation worksheet 25
LAN drivers 14
software 2, 13

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